

Special Products of Binomials

The special binomial products are:

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

$$(a + b)(a - b) = a^2 - b^2$$

Find the product

1. $(x - 2)^2 =$

14. $(x + 12)(x - 12) =$

2. $(x + 7)^2 =$

15. $(4x + 5)^2 =$

3. $(2x - 5)^2 =$

16. $(2x^2 - 3)^2 =$

4. $(4 - 7x)^2 =$

17. $(x - 11)^2 =$

5. $(x + 4)(x - 4) =$

18. $(x^2 + 8)(x^2 - 8) =$

6. $(4 + 5x)^2 =$

19. $(2x^2 + 9)^2 =$

7. $(2x^2 + 3)(2x^2 - 3) =$

20. $(9 - 6x)^2 =$

8. $(x - 11)(x + 11) =$

21. $(x - 12)^2 =$

9. $(x^2 + 8)^2 =$

22. $(x + 9)(x - 9) =$

10. $(2x^2 + 9)(2x^2 - 9) =$

23. $(x + 5)(x - 5) =$

11. $(9 + 6x)^2 =$

24. $(9x + 1)^2 =$

12. $(x - 8)^2 =$

25. $(x - 1)^2 =$

13. $(4 - 5x)^2 =$

26. $(3 - 5x)^2 =$

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Answers

$$1. (x - 2)^2 = \underline{x^2 - 4x + 4}$$

$$2. (x + 7)^2 = \underline{x^2 + 14x + 49}$$

$$3. (2x - 5)^2 = \underline{4x^2 - 20x + 25}$$

$$4. (4 - 7x)^2 = \underline{16 - 56x + 49x^2}$$

$$5. (x + 4)(x - 4) = \underline{x^2 - 16}$$

$$6. (4 + 5x)^2 = \underline{16 + 40x + 25x^2}$$

$$7. (2x^2 + 3)(2x^2 - 3) = \underline{4x^4 - 9}$$

$$8. (x - 11)(x + 11) = \underline{x^2 - 121}$$

$$9. (x^2 + 8)^2 = \underline{x^4 + 16x^2 + 64}$$

$$10. (2x^2 + 9)(2x^2 - 9) = \underline{4x^4 - 81}$$

$$11. (9 + 6x)^2 = \underline{81 + 108x + 36x^2}$$

$$12. (x - 8)^2 = \underline{x^2 - 16x + 64}$$

$$13. (4 - 5x)^2 = \underline{16 - 40x + 25x^2}$$

$$14. (x + 12)(x - 12) = \underline{x^2 - 144}$$

$$15. (4x + 5)^2 = \underline{16x^2 + 40x + 25}$$

$$16. (2x^2 - 3)^2 = \underline{4x^4 - 12x + 9}$$

$$17. (x - 11)^2 = \underline{x^2 - 22x + 121}$$

$$18. (x^2 + 8)(x^2 - 8) = \underline{x^2 - 64}$$

$$19. (2x^2 + 9)^2 = \underline{4x^4 + 36x^2 + 81}$$

$$20. (9 - 6x)^2 = \underline{81 - 108x + 36x^2}$$

$$21. (x - 12)^2 = \underline{x^2 - 24x + 144}$$

$$22. (x + 9)(x - 9) = \underline{x^2 - 81}$$

$$23. (x + 5)(x - 5) = \underline{x^2 - 25}$$

$$24. (9x + 1)^2 = \underline{81x^2 + 18x + 1}$$

$$25. (x - 1)^2 = \underline{x^2 - 2x + 1}$$

$$26. (3 - 5x)^2 = \underline{9 - 30x + 25x^2}$$